

FLUX-CORED WIRE FORMULATION FOR WELDING

Abstract of Disclosure

A weld wire having a core composition comprising a combination of graphite and a compound of potassium is disclosed. The combination of graphite and the compound of potassium in the core composition does not exceed approximately 5% by weight, making it possible for the wire to be used in an alternating current welding process without destabilizing a welding arc. The wire comprises the compound of potassium, which is $K_2 MnTiO_4$, wherein the combination of graphite and the compound of potassium in the core composition is selected from the range of about 0.3% to about 5% by weight.